

COPY OF PAPERS
ORIGINALLY FILED

ATTORNEY DOCKET NO. UCDA.004.01US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Mikal E. Saltveit et al.**

Serial No.: **09/964,992**

Filed: **September 26, 2001**

For: **Characterization of Phenylalanine
Ammonia-lyase (PAL) Gene in Wounded
Lettuce Tissue**

)
) Examiner: Not Yet Assigned
)
) Art Unit: 1645
)
) MARKED-UP VERSION TO SHOW
) CHANGES MADE
)

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED
FEB 13 2002
TECH CENTER 1600/2900

Sir:

This marked-up specification (section 'Brief Description of the Drawings', page 5 lines 1-2) accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

In the Specification

Figure 9: Sequence comparison of LsPAL1 (SEQ ID NO:1) to sunflower PAL (SEQ ID NO:5) demonstrating the close sequence homology.

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on 12/11/01

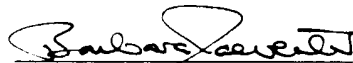
Signature: Robert J. Patterson

Printed Name: Robert J. Patterson

Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 10, 2001



Barbara Rae Venter, Ph.D.
Reg. No. 32,750

Rae-Venter Law Group, P.C.
P.O. Box 60039
Palo Alto, CA 94306
Telephone: (650) 328-4400
Facsimile: (650) 328-4477

BRV/KJA



PATENT

COPY OF PAPERS
ORIGINALLY FILED

ATTORNEY DOCKET NO. UCDA.004.01US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mikal E. Saltveit *et al.*

Serial No.: 09/964,992

Filed: September 26, 2001

For: Characterization of Phenylalanine
Ammonia-lyase (PAL) Gene in Wounded
Lettuce Tissue

)
) Examiner: Not Yet Assigned
)
) Art Unit: 1645
)
) RED SKETCH OF DRAWING TO
) SHOW CHANGES MADE
)

TECH CENTER 1600/2900

FEB 13 2002

RECEIVED

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This red sketch of Figure 9 accompanies the attached preliminary amendment for the above-identified patent application and is submitted on or before December 26, 2001.

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on 12.11.01

Signature: Robert J. Patterson

Printed Name:

Robert J. Patterson

Mikal E. Saltveit *et al.*
Serial No. 09/964,992

Respectfully submitted,

Date: December 14, 2001

Barbara Rae-Venter

Barbara Rae-Venter, Ph.D.
Reg. No. 32,750

Rae-Venter Law Group, P.C.
P.O. Box 60039
Palo Alto, CA 94306
Telephone: (650) 328-4400
Facsimile: (650) 328-4477

BRV/KJA

+			
1	MENGTHVNGSANGFCIKDPLNWGVAAEALTGSHLDEVKKMVGEFRKPVVK	Sunflower	
1	MENGTHVNGVNVNELCIKDPLNWGVAAEALTGSHLDEVKKMVAEFRKPVVK	LsPAL1	
51	LGGETLTVSQVAGISAAAGDGNMVKVELSEAARAGVKASSDWVMESMNKGT	Sunflower	
51	LGGETLTVSQVAGIAAANDSDTVKVELSEAARAGVKASSDWVMESMNKGT	LsPAL1	
101	DSYGVTTFGFGATSHRRTKNGGALQKELIRFLNAGIFGNGTESSHTLPHSA	Sunflower	
101	DSYGVTTFGFGATSHRRTKQGGALQKELIRFLNAGIFGNGTETSHTLPHSA	LsPAL1	
151	TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGTITASGD	Sunflower	
151	TRAAMIVRINTLLQGYSGIRFEILEAITKFLNNNITPCLPLRGTITASGD	LsPAL1	
201	LVPLSYIAGLLTGRPNASKAVGPAGEVLNAESAFQAAGVEGGFFELQPKKG	Sunflower	
201	LVPLSYIAGLLTGRPNASKAVGPTGEVLNAEKAFAAAGVEGGFFELQPKKG	LsPAL1	
251	LALVNGTAVGSGMASMVLFEBANVLALLSEVLSAIFAEVMQKGPEFTDHLT	Sunflower	
251	LALVNGTAVGSGMASMVLF DANVLALLSEVLSAIFAEVMQKGPEFTDHLT	LsPAL1	
301	HKLKHHPGQIEAAAIMEYILDGSDYVKAQKVHEMDPLQKPKQDRYALRT	Sunflower	
301	HKLKHHPGQIEAAAIMEYILDGSDYVKAQKVHEMDPLQKPKQDRYALRT	LsPAL1	
351	SPQWLGPQIEVIRSATKMIEREINSVNDNPLIDVSRNKALHGGNFQGTPI	Sunflower	
351	SPQWLGPQIEVIRSSTKMIEREINSVNDNPLIDVSRNKALHGGNFQGTPI	LsPAL1	
401	GVSMDNTRLAIAAIGKVTIAQFSELVNDFYNNGLPSHLSGGRNPSLDSGF	Sunflower	
401	GVSMDNTRLAIAAIGKLMFAQFSELVNDFYNNGLPSNLSGGRNPSLDYGF	LsPAL1	
451	KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV	Sunflower	
451	KGGEIAMASYCSELQFLANPVTNHVQSAEQHNQDVNSLGLISARKTAEAV	LsPAL1	
501	DILKLSSTYLVALCQSIDLRHLEENMKSTVKNTVSQVAKKVLTMGVNGE	Sunflower	
501	DILKLSSTYLVALCQSIDLRHLEENMKSTVKNTVSQVAKKVLTMGVNGE	LsPAL1	
551	LHPSRFCEKDLLRVVDREYVFAYADDPCLTTYPLMQKLRQVLVDHALNNG	Sunflower	
551	LHPSRFCEKDLLRVVDREYVFAYIDDVCSGTYPLMQKLRQVLVDHALNNG	LsPAL1	
601	ETEKNTSIFQKIATFEDELKAILPKEVESVRVAFENGTM SIPNRIKAC	Sunflower	
601	ETEKNTSIFQKIATFEDELKVLLPKEVEGVRVAYENDTSLIPNRIKAC	LsPAL1	
651	RSYPLYRFVREELGGA	Sunflower	
651	RSYPLYRFVREELGRGFLTGEKVTSPGEEFDRVFTAMCKGQIIDPLLECL	LsPAL1	
701	GGWNGEPLPIC	LsPAL1	

Figure 9

+